

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	145	diamond with tool with concave	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S2	57340	song.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S3	190956	park.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S4	432338	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S5	454815	lee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S6	3562	cheong.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S7	1785	jee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S8	11	(S2 S3 S4 S5 S6 S7) and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:27
S9	1	(diamond with tool with concave with shank).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:28
S10	18	diamond near4 tool same abrasive near (particle or grain) same shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:05
S11	1436	(diamond near tool).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:15

S12	557	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S13	777	451/51.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S14	1034	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S15	11635	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:17
S16	41	(S12 S14 S15) and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:17
S17	50	(US-20070151554-\$ or US-20050249560-\$ or US- 20020182018-\$ or US- 20060120811-\$).did. or (US-4496372-\$ or US- 4244432-\$ or US- 4351401-\$ or US- 4457765-\$ or US- 4534773-\$ or US- 4556403-\$ or US- 4778730-\$ or US- 4793828-\$ or US- 5580196-\$ or US- 7128066-\$ or US- 6959771-\$ or US- 4539778-\$ or US- 5011508-\$ or US- 5388374-\$ or US- 5501630-\$ or US- 4258505-\$ or US- 4268564-\$ or US- 4330027-\$ or US- 4350497-\$ or US- 4355489-\$ or US- 4382350-\$ or US- 4486200-\$ or US- 4536195-\$ or US- 4596640-\$ or US- 4787942-\$ or US- 4832707-\$).did. or (US- 4918874-\$ or US- 4968326-\$ or US- 4971602-\$ or US- 5008513-\$ or US-	US-PGPUB; USPAT	OR	ON	2009/01/23 08:19

		5016498-\$ or US- 5025871-\$ or US- 5178643-\$ or US- 5210944-\$ or US- 5376410-\$ or US- 5492548-\$ or US- 5773120-\$ or US- 6004362-\$ or US- 6030277-\$ or US- 6113474-\$ or US- 6180245-\$ or US- 5358026-\$ or US- 5447465-\$ or US- 4869788-\$ or US- 3872594-\$ or US- 4951423-\$).did.				
S18	62769	song.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S19	201144	park.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S20	455269	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S21	476517	lee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S22	3744	cheong.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S23	1964	jee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S24	41	(S18 S19 S20 S21 S22 S23) and (diamond same tool).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S25	5	(S18 S19 S20 S21 S22 S23) and (diamond same tool).clm. and shank.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:07
S26	561	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32

S27	779	451/51.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S28	1039	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S29	11732	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S30	8	(S26 S27 S28 S29) and (diamond near tool).ab. and (concave or slot or aperture)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S31	50	(US-20070151554-\$ or US-20050249560-\$ or US- 20020182018-\$ or US- 20060120811-\$).did. or (US-4496372-\$ or US- 4244432-\$ or US- 4351401-\$ or US- 4457765-\$ or US- 4534773-\$ or US- 4556403-\$ or US- 4778730-\$ or US- 4793828-\$ or US- 5580196-\$ or US- 7128066-\$ or US- 6959771-\$ or US- 4539778-\$ or US- 5011508-\$ or US- 5388374-\$ or US- 5501630-\$ or US- 4258505-\$ or US- 4268564-\$ or US- 4330027-\$ or US- 4350497-\$ or US- 4355489-\$ or US- 4382350-\$ or US- 4486200-\$ or US- 4536195-\$ or US- 4596640-\$ or US- 4787942-\$ or US- 4832707-\$).did. or (US- 4918874-\$ or US- 4968326-\$ or US- 4971602-\$ or US- 5008513-\$ or US- 5016498-\$ or US- 5025871-\$ or US- 5178643-\$ or US- 5210944-\$ or US- 5376410-\$ or US-	US-PGPUB; USPAT	OR	ON	2009/05/07 11:38

		5492548-\$ or US-5773120-\$ or US-6004362-\$ or US-6030277-\$ or US-6113474-\$ or US-6180245-\$ or US-5358026-\$ or US-5447465-\$ or US-4869788-\$ or US-3872594-\$ or US-4951423-\$).did.				
S32	2	S31 and (abrasive near tool).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:39
S33	2	("6039641").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 11:39
S34	28	("4669522"   "4780274"   "5000273"   "5518443").PN. OR ("6039641").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/07 11:39
S35	95	(hole or opening or aperture) with (swarf or coolant or cool) with (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 13:56
S36	46	groove with (swarf or coolant or cool) with (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 13:56
S37	5	((("4091792") or ("4624237")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 13:57
S38	16242	diamond near (tool or saw or grinding or cutting or abrading)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:26
S39	271	(diamond near (tool or saw or grinding or cutting or abrading)).ab. and (diamond or abrasive or superabrasive) same (braz\$5 or bond\$5) same layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:27

S40	3	(diamond near (tool or saw or grinding or cutting or abrading)).ab. and (diamond or abrasive or superabrasive) same (braz\$5 or bond\$5) same layer and concave near portion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:27
S41	186	protrud\$5 with (diamond or superabrasive) near3 particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:53
S42	72	protrud\$5 with (diamond or superabrasive) near3 particle and tool near4 (cutting or diamond or grinding or abrading)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:04
S43	65	protrud\$5 with (diamond or superabrasive) near3 particle and (opening or slot or apperture or concave)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:06
S44	12	protrud\$5 with (diamond or superabrasive) near3 particle same (opening or slot or apperture or concave)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:17
S45	103755	"451".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:25
S46	11732	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:25
S47	1934	(S45 S46) and (opening or slot or concave or apperture) same (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:27
S48	1593	(S45 S46) and (opening or slot or concave or apperture) same (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:27

S49	318	(S45 S46) and (opening or slot or concave or apperture) same (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S50	0	(S45 S46) and (opening or slot or concave or apperture) with "into" with (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S51	0	(S45 S46) and (opening or slot or concave or apperture) with "into" with (diamond or superabrasive) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S52	12	protruding near height with abrasive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:00
S53	2	("6039641").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 16:06
S54	4	("4669522"   "4780274"   "5000273"   "5518443").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/07 16:06
S55	1	S54 and protrud\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:10
S56	46	diamond adj tool same protrud\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:13
S57	88	protrud\$5 near5 height near5 (abrasive or diamond)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:19
S58	6	protrud\$5 near5 height near5 (abrasive or diamond) with control	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:19

S59	2	("20030132119").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 16:22
S60	98	(abrasive or polishing or planarizing or planarization or abrading or lapping).ti. and (protrud\$4 with (diamond or particle or abrasives)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:37
S61	4304	(abrasive near2 (tool or article)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:43
S62	91786	(abrasive near2 (tool or article)).ti. (support or substrate or shank) same (abrasives or diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S63	550	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) same particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S64	533	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) with particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S65	260	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) with particle same layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S66	6	(("5611326") or ("5997597") or ("6042463")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/08 09:45
S67	5	abrasive near3 particle with protrusion with (effective or exhibit or impart or benefit or better or enhanced or enhance or prefer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 10:07

S68	3	("3957593"   "4381227"   "5389228").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/08 10:29
S69	4	("5989405").URPN.	USPAT	OR	ON	2009/05/08 10:29
S70	2	("20070151554").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/12/01 09:26
S71	1	S70 and groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 09:26
S72	569	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S73	1045	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S74	11869	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S75	569	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S76	1045	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S77	11869	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S78	47	(S75 S76 S77) and diamond near3 tool same shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S79	20	(S75 S76 S77) and diamond near3 tool same shank and hole	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:53
S80	2	("20070151554").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/05/17 14:26

S81	0	S80 and topmost with shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:28
S82	0	S80 and topmost	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:28
S83	2	S80 and surface with shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:28
S84	3941	(abrasive or polishing or planarizing or planarization or lapping or abrading) near2 (tool or cutting or element or article) and (gap or groove or concave or dimple) same (particle or particulate or grain or diamond or CBN)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:50
S85	380	(abrasive or polishing or planarizing or planarization or lapping or abrading) near2 (tool or cutting or element or article) and (gap or groove or concave or dimple) with (shank or substrate) same (particle or particulate or grain or diamond or CBN)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:51
S86	1072	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:51
S87	12303	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:51
S88	49	(abrasive or polishing or planarizing or planarization or lapping or abrading) near2 (tool or cutting or element or article) and (gap or groove or concave or dimple) with (shank or substrate) same (particle or particulate or grain or diamond or CBN) and (S86 or S87)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/05/17 14:51

S89	104309	song.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S90	264742	park.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S91	597982	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S92	620012	lee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S93	5083	cheong.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S94	3089	jee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S95	1	(S89 S90 S91 S92 S93 S94) and (diamond near3 tool and concave and abrasive and shape).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:52
S96	2369	51/295.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:53
S97	2013	51/293.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:53
S98	69	(S96 S97 "L12" "L14" "L15") and (tool or insert) and (shank or body) and diamond and concave	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/31 16:56

8/31/2011 4:56:38 PM

C:\Documents and Settings\pparvini\My Documents\EAST\Workspaces\10597841\_diamond tools.wsp